**Lepidoptera Course 2014 Schedule (draft)**

**Thursday, August 14th (Arrival and Orientation)**

8:00 AM – 5:00 PM: Students arrive at the SWRS throughout the day.

(as needed): Introductions and brief orientations.

12:00 – 1:00 PM: Lunch

5:00 PM: Orientation, announcements, introductions (Walsh/all)

6:00 PM – 7:00 PM: Dinner

7:30 PM: Set blacklight traps

8:00 PM: First night of casual collecting at the classrooms.

**Friday, August 15th (Techniques: Introduction to the Lepidoptera)**

7:00 AM – 8:00 AM: Breakfast

8:30 AM – 10:00 AM: Trap sorting (all instructors)

10:00 AM – 10:30 AM: Brief introduction to the Lepidoptera (Walsh)

10:30 AM – 11:30 PM: The Importance of Lepidoptera (J. Brown)

12:00 PM – 1:00 PM: Lunch

1:00 PM – 1:30 PM: Techniques for collecting and observing Lepidoptera (Grinter)

1:30 PM – 1:50 PM: Spreading Macrolepidoptera (Walsh)

1:50 PM – 2:15 PM: Spreading Microlepidoptera (Grinter/R. Brown)

2:15 PM: break

2:45 PM – 3:15 PM: Demonstrations of pinning and spreading (all instructors)

3:15 PM – 4:30 PM: Practice pinning and spreading.

4:30 PM – 5:00 PM: Introduction to Lepidoptera Literature (all instructors)

5:00 PM – 5:30 PM: Setting sheets & traps demonstration (R. Brown & others)

5:30 PM – 6:00 PM: break

6:00 PM – 7:00 PM: Dinner

7:30 PM: Field trip, lighting at Herb Martyr.

**Saturday, August 16th (Adult Morphology; Macrolepidoptera)**

7:00 AM – 8:00 AM: Breakfast

8:00 AM – 11:00 AM: Field trip to Paradise Cemetery

11:15 AM – 12:00 PM: Adult morphology (J. Brown/R. Brown)

12:00 PM – 1:00 PM: Lunch

1:00 PM – 2:30 PM: Whole body dissection lab (Brown/Brown)

2:30 PM: break

2:45 PM – 3:30 PM: Macrolepidoptera classification and phylogeny (Bundy)

3:45 PM – 4:45 PM: Macrolepidoptera identification with lab (Walsh/Bundy)

4:45 PM – 5:15 PM: Butterfly classification and identification (J. Brown)

5:15 PM: Free time

6:00 PM – 7:00 PM: Dinner

7:00 PM: Remote traps placed.

7:30 PM: Lighting around station.

**Sunday, August 17th (Microlepidoptera)**

6:45 AM: Remote traps retrieved

7:00 AM – 7:45 AM: Breakfast

8:00 AM – 9:30 AM: Trap sorting

9:30 AM: break

10:00 AM – 10:45 AM: Microlepidoptera Phylogeny and Classification (J. Brown)

10:45 AM – 11:30 AM: Primitive Microlepidoptera (Grinter)

11:30 AM – 12:00 PM: Gelechioidea (R. Brown)

12:00 PM – 1:00 PM: Lunch

1:00 PM: break

1:30 PM – 2:00 PM: Gelechioidea lab (R. Brown/Grinter)

2:00 PM – 2:30 PM: Tortricoidea (R. Brown)

2:30 PM – 3:00 PM: Zygaenoidea (Epstein)

3:00 PM – 3:30 PM: Pyraloidea (Grinter)

3:30 PM: break

4:00 PM – 5:00 PM: Microlep lab (all instructors)

5:00 PM: Free time (instructors available for further lab work)

6:00 PM – 7:00 PM: Dinner

7:15 PM: Blacklighting at Barfoot Park.

**Monday, August 18th (Genitalia)**

7:00 AM – 8:00 AM: Breakfast

8:00 AM: break

8:30 AM – 9:00 AM: Male genital morphology (R. Brown)

9:00 AM – 10:00 AM: Male genitalia lab focusing on *Matigramma* (all instructors)

10:00 AM: break

10:15 AM – 10:45 AM: Female genital morphology (R. Brown)

10:45 AM – 11:30 AM: Female genital dissection lab

11:30 AM: break

12:00 PM – 1:00 PM: Lunch

1:00 PM – 1:45 PM: Overviews of family level differences in genitalia. (assorted)

2:00 PM: Free time (continued lab work, or general collecting around station)

6:00 PM – 7:00 PM: Dinner

7:30 PM – 12:00 AM: Field trip to Foothills Road.

**Tuesday, August 19th (Early Stages)**

7:00 AM – 8:00 AM: Breakfast

8:30 AM – 10:00 AM: Trap sorting

10:00 AM – 10:30 AM: Caterpillar morphology (R. Brown/Bundy)

10:30 AM – 11:00 AM: Microlep caterpillars (Epstein?)

11:00 AM – 11:30 AM: Caterpillar husbandry & lab (Bundy)

11:30 AM – 12:00 PM: Cactus moths (R. Brown)

12:00 PM – 1:00 PM: Lunch

1:00 PM – 3:30 PM: Field trip to Paradise Cyn for caterpillars

3:30 PM: break

4:00 PM – 5:00 PM: Pupa morphology with lab (R. Brown)

5:00 PM – 5:15 PM: Zygaenoidea larva (Epstein)

5:15 PM: Free time

6:00 PM – 7:00 PM: Dinner

7:30 PM – 12:00 AM: Collecting around station

**Wednesday, August 20th (Ecology & Behavior)**

7:00 AM– 8:00 AM: Breakfast

8:30 AM – 12:00 AM: Field trip to Barfoot Park & Onion Saddle.

12:00 PM – 1:00 PM: Lunch

1:00 PM – 1:45 PM: Lepidoptera ecology (R. Brown)

1:45 PM – 3:00 PM: Physiology and behavior (R. Brown/?)

3:00 PM: break

3:15 PM – 4:00 PM: Introduction to Lepidoptera histology (Nagle)

4:00 PM – 4:30 PM: Sex scales (R. Brown)

4:30 PM – 5:00 PM: Evolution of wing scales (R. Brown)

5:00 PM: Free time

6:00 PM – 7:00 PM: Dinner

7:30 PM: Collecting around the station.

**Thursday, August 21st (Miscellaneous Topics)**

7:00 AM– 8:00 AM: Breakfast

7:30 AM – 9:00 AM: Trap sorting

9:00 AM – 9:45 AM: History of Early Lepidopterists (Epstein)

9:45 AM – 10:15AM: Modern lepidopterists (Grinter)

10:15 AM – 10:45 AM: Specimen photography (Grinter)

10:45 AM – 11:15 AM: Arctiinae of Arizona (Nagle)

11:15AM: break

12:00 PM – 1:00 PM: Lunch

1:00 PM: Free time

2:00 PM – 2:30 PM: Taxonomy and nomenclature (J. Brown)

2:30 PM – 3:30 PM: Systematics and Phylogeny (Epstein)

3:30 PM – 4:00 PM: Lucid keys and future of identification(Epstein)

4:00 PM – 4:30 PM: DNA barcodes (Grinter)

4:30 PM: Free time

6:00 PM – 7:00 PM: Dinner

7:30 PM: Field trip to Paradise Road.

**Friday, August 22nd (Miscellaneous Topics)**

7:15 AM– 8:00 AM: Breakfast

8:00 AM – 9:00 AM: Importance of Collections (R. Brown)

9:00 AM – 12:00 PM: Free time

12:00 PM – 1:00 PM: Lunch

1:00 PM: Free time (continued identification with instructors)

6:00 PM – 7:30 PM: Dinner

8:00 PM – 1:00 AM: Celebratory drinks in Rodeo, New Mexico

**Saturday, August 23rd**

8:00 AM – 12:00 PM: Classroom cleanup, students depart by afternoon.

**General Notes**

Sharing a ride from Tucson with other students or instructors is usually the best way to get to the SWRS.

Room assignments can be picked up at the main office located at the end of the road through the station.

Alcohol is allowed in moderation and students are encouraged to bring beverages of their choice (instructor rooms have fridges). Soda, beer, candy, etc. can be purchased at the store on the station. There is a small convenience store in Portal for more assorted items. Closest supermarket is Tucson.

**Instructor contact information**

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